

Tuesday, September 25, 2018

Keio Plaza Hotel Tokyo

Room 1 (Nishiki, 4F) 8:50-9:40

Special Lecture 1 Sponsored by BNS

Neuropathology of AD

Chair: Masahito Yamada (Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Science)

SL1 Understanding Alzheimer pathophysiology: implications for clinical trials

James A.R. Nicoll (University of Southampton / University Hospital Southampton)

Room 1 (Nishiki, 4F) 9:40-10:30

Special Lecture 2

Neuropathology of ADNI and DIAN

Chair: Atsushi Iwata (Department of Neurology, Graduate School of Medicine, The University of Tokyo)

SL2 Neuropathologic heterogeneity in autosomal dominant and late-onset Alzheimer disease

Nigel J. Cairns (Department of Neurology, Washington University)

Room 1 (Nishiki, 4F) 10:30-11:50

Symposium 12

Protein Propagation in Neurodegeneration

Chairs: Tetsuaki Arai (Department of Neuropsychiatry, University of Tsukuba Hospital)

Edward B. Lee (Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania)

S12-1 Overview of protein propagation in neurodegeneration

Tetsuaki Arai (Department of Psychiatry, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba)

S12-2 Histopathologic Subtypes of FTLD-TDP: Implications for propagation in neurodegeneration

Edward B. Lee (Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania)

S12-3 Systemic propagation of alpha- synuclein in the human body

Renpei Sengoku (Department of Neurology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)

S12-4 Prion-like propagation of pathological tau in neurodegenerative diseases

Masato Hasegawa (Department of Dementia and Higher Brain Function, Tokyo Metropolitan Institute of Medical Science / Department of Biological Science, Tokyo Metropolitan University)

Room 1 (Nishiki, 4F) 13:10-14:30

Symposium 13 Collaboration with JSDR, Endorsed by AANP

Longitudinal and Cohort Clinicopathological Study of Aging and Dementia

Chairs: Toru Iwaki (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)

Lon R. White (University of Hawaii and the Pacific Health Research and Education Institute)

S13-1 Epidemiology of clinically-diagnosed dementia in a Japanese community: the Hisayama study

Tomoyuki Ohara (Department of Neuropsychiatry, Graduate School of Medical Sciences, Kyushu University / Department of Epidemiology and Public Health, Graduate School of Medical Sciences, Kyushu University)

- S13-2 Trends in dementia prevalence over 31 years of the Hisayama study**
Hiroyuki Honda (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)
- S13-3 Independence and interdependence of neuritic amyloid plaques, neurofibrillary tangles, striatal A-beta, hippocampal abnormalities, and generalized brain atrophy as elements of Alzheimer's disease**
Lon R. White (University of Hawaii and the Pacific Health Research and Education Institute)
- S13-4 The Rush Community Studies of Aging with Autopsy - Highlights and Implications**
Julie A. Schneider (Rush Alzheimer's Disease Center / Neurology, Rush University Medical Center)
- S13-5 Overview of Japan semisupercentenarian study**
Nobuyoshi Hirose (Center for supercentenarian medical research, Keio University School of Medicine)
- S13-6 Brain pathology of supercentenarians**
Masaki Takao (International Medical Center, Saitama Medical University)

Room 1 (Nishiki, 4F)

15:30-16:50

Symposium 16

Collaboration with JSDR, Endorsed by AANP

Brain Bank

Chairs: Yuko Saito (National Center of Neurology and Psychiatry)
Julie A. Schneider (Rush Memorial Hospital)

- S16-1 Arizona Study of Aging and Neurodegenerative Disorders and Brain and Body Donation Program 1988-2018**
Thomas G. Beach (Banner Sun Health Research Institute)
- S16-2 The Netherlands Brain Bank**
Inge Huitinga (Netherlands Brain Bank, Netherlands Institute for Neuroscience)
- S16-3 To establish all- Japan Brain Bank Network**
Yuko Saito (National Center of Neurology and Psychiatry Brain Bank / The Japanese Brain Bank Net (JBBN) / The Japanese Brain Bank Network for Neuroscience Research (JBBNRR))
- S16-4 Limitations of routine immunopathologic diagnoses in neurodegenerative diseases of the aging brain: implementing the added value of brain/biobanking (frozen-brain biochemistry, genetics, CSF, blood, other biofluids)**
Colin Louis Masters (The Florey Institute, The University of Melbourne)

Room 1 (Nishiki, 4F)

17:10-17:50

JSNP Councilors' Meeting

Room 2 (Hana C, 4F)

8:50-10:10

Symposium 8**Pituitary Adenoma, Revised WHO Classification****Chairs:** M. Beatriz S. Lopes (Division of Neuropathology, Department of Pathology, University of Virginia)

Naoko Inoshita (Department of Pathology, Toranomon Hospital / Okinaka Memorial Institute for Medical Research)

S8-1 Updates on the WHO Classification of Pituitary Neuroendocrine Tumors

M. Beatriz S. Lopes (Division of Neuropathology, Department of Pathology, University of Virginia)

S8-2 Non-functioning adenomas - a new approach for their classification

Hiroshi Nishioka (Department of Hypothalamic and Pituitary Surgery, Toranomon Hospital)

S8-3 Updates on TTF-1 Expressing Posterior Pituitary Tumors

David Capper (Institute of Neuropathology, Charité - Universitätsmedizin Berlin / German Cancer Consortium (DKTK), Partner Site Berlin / German Cancer Research Center (DKFZ))

S8-4 Updates on Craniopharyngiomas

Sandro Santagata (Department of Pathology, Brigham and Women's Hospital / Lab for Systems Pharmacology, Harvard Medical School / Ludwig Center at Harvard / Department of Oncologic Pathology, Dana Farber Cancer Institute / Department of Pathology, Boston Children's Hospital)

Room 2 (Hana C, 4F)

10:10-11:50

Symposium 10**Low-grade epilepsy-associated neuroepithelial tumor (LEAT) in Light of the 2016 WHO Classification: Clinicopathological and Molecular-genetic Considerations****Chairs:** Mrinalini Honavar (Department of Anatomic Pathology, Hospital Pedro Hispano)

Eleonora Aronica (Department of (Neuro)Pathology, Academic Medisch Centrum (AMC))

S10-1 Neuropathological experience with 2244 LEAT from the European Epilepsy Brain Bank

Ingmar Blümcke (Institute of Neuropathology, University Hospitals Erlangen)

S10-2 The differential diagnosis of ganglioglioma and DNT variants: avenues towards an integrated phenotype-genotype classification

Maria Thom (Department of Neuropathology, Institute of Neurology, University College London (UCL))

S10-3 Pleomorphic Xanthoastrocytoma: Pathology and Genetics

Caterina Giannini (Anatomic Pathology, Department of Laboratory Medicine and Pathology, Mayo Clinic)

S10-4 Brain somatic mutations in MTOR and BRAF leading to intractable focal epilepsy

Jeong-Ho Lee (Korea Advanced Institute of Science and Technology (KAIST))

S10-5 New prospects for the classification of pediatric low-grade gliomas and glioneuronal tumors

David W. Ellison (St. Jude Children's Research Hospital)

Room 2 (Hana C, 4F)

13:10-14:30

Symposium 14**Veterinary Pathology****Chairs:** Hiroyuki Nakayama (Veterinary Pathology, The University of Tokyo)

Nobutaka Arai (Tokyo Metropolitan Institute of Medical Science)

S14-1 What's going on in the field of veterinary neuropathology

Hiroyuki Nakayama (Veterinary Pathology, The University of Tokyo)

S14-2 Encephalomyelitis in dogs

Kazuyuki Uchida (Veterinary Pathology, The University of Tokyo)

S14-3 Aging-related brain changes and neurodegenerative disorders in animals

James K. Chambers (Veterinary Pathology, The University of Tokyo)

S14-4 Brain tumors in animals

Takuya Evan Kishimoto (Veterinary Pathology, The University of Tokyo)

Room 2 (Hana C, 4F)

16:00-17:20

Symposium 19

Meningioma, update

Chairs: Christian Mawrin (Department of Neuropathology Otto-von-Guericke-University)

Shinya Tanaka (Department of Cancer Pathology, Hokkaido University Faculty of Medicine)

S19-1 Biological function and therapeutic potential of somatic mutations in meningiomas

Christian Mawrin (Department of Neuropathology, University Hospital Magdeburg)

S19-2 Role of CD163 in meningioma progression

Shinya Tanaka (Department of Cancer Pathology, Hokkaido University Faculty of Medicine / Global Station for Soft Matter, GI-CoRE, Hokkaido University)

S19-3 Update of Meningioma Classification and Genetics

Arie Perry (Department of Pathology, Division of Neuropathology, University of California, San Francisco (UCSF))

S19-4 Radiation-induced meningiomas: experience at the Hiroshima University Hospital and review of the literature

Fumiyuki Yamasaki (Department of Neurosurgery, Hiroshima University Hospital)

Room 3 (Hana D, 4F)

8:50-9:20

Oral 6**Nerve & Muscle****Chairs:** Takashi Kanda (Yamaguchi University Graduate School of Medicine)

Kurenai Tanji (Neuromuscular Pathology Laboratory, Department of Pathology & Cell Biology, Columbia University)

O6-1 Ultrastructural mechanisms of macrophage-induced demyelination in chronic inflammatory demyelinating polyneuropathy: an observation on longitudinal sections

Haruki Koike (Nagoya University Graduate School of Medicine)

O6-2 Morphometric study of myelinated fibers in sural nerve of transthyretin familial amyloid neuropathy asymptomatic carriers: back to the archives of the Corino de Andrade Unit

Ricardo Taipa (Institute of Biomedical Sciences Abel Salazar, University of Porto / Neuropathology Unit, Department of Neurosciences, Centro Hospitalar do Porto)

O6-3 Fluoxetine improves regenerative capacity of the skeletal muscle

Mylene Fefeu (Centre Hospitalier Sainte-Anne, Service Hospitalo Universitaire de psychiatrie / Institut Pasteur, Experimental Neuropathology Unit, Infection and Epidemiology Department)

Room 3 (Hana D, 4F)

9:20-10:10

Oral 7**Brain Tumor 1****Chairs:** Roger E. McLendon (Pathology, Clinical Science Departments, Duke University)

Kaoru Kurisu (Graduate School of Biomedical & Health Sciences, Hiroshima University)

O7-1 The genetic landscape of pediatric low-grade gliomas: incidence, prognosis and response to therapy - a SickKids pLGG Task Force Update

Cynthia Hawkins (Department of Paediatric Laboratory Medicine, The Hospital for Sick Children / Laboratory Medicine and Pathobiology, The University of Toronto)

O7-2 Improved diagnostic algorithm for differential diagnostics of CNS embryonal tumors (former CNS-PNET) by neuropathological re-evaluation of 256 cases and crossvalidation by methylation classification

Torsten Pietsch (Institute of Neuropathology, University of Bonn / DGNN Brain Tumor Reference Center)

O7-3 Value of Immunohistochemistry and Sequencing for Detection of the H3.3 G34 Mutations in High Grade Gliomas

Felice Giangaspero (Department of Radiological, Oncological and Anatomico-pathological Sciences, University Sapienza / IRCCS Neuromed)

O7-4 Grading of pediatric high grade gliomas. Results from the HERBY trial

Pascale Varlet (Department of Neuropathology, Sainte-Anne Hospital)

O7-5 Immunohistochemical and molecular subtyping of Central Nervous System Primitive neuroectodermal tumors (CNS PNETs) in light of the updated 2016 WHO classification

Meher Chand Sharma (Department of Pathology, All India Institute of Medical Sciences (AIIMS), New Delhi)

Room 3 (Hana D, 4F)

10:10-11:00

Oral 8**Brain Tumor 2****Chairs:** Felice Giangaspero (Anatomic Pathology, Sapienza University)

Junji Shibahara (Kyorin University Faculty of Medicine)

O8-1 High-grade gliomas involving the subventricular zone - a molecular study of 32 cases

Aden Ka-yin Chan (Department of Anatomical and Cellular Pathology, The Chinese University of Hong Kong)

O8-2 INI-1 immunohistochemistry in CNS embryonal tumors - a clinicopathological study

Lily Pal (Department of Pathology, SGPGIMS)

O8-3 Histopathologic description and identification of prognostic factors for infantile desmoplastic gangliogliomas and astrocytomas

Perbet Romain (School of Medicine, University of Lille / Pathology Institute, Lille University hospital)

O8-4 Presence of H3 K27M mutation in a series of midline children/young adults gliomas

Jose Pimentel (Laboratorio de Neuropatologia, Servico de Neurologia, Departamento de Neurociencias, Hospital de Santa Maria / Faculdade de Medicina, Universidade de Lisboa)

O8-5 An integrative radiological, histopathological and molecular analysis of pediatric pontine MYCN-HGG

Arnault Tauziède-Espariat (Department of Neuropathology, Sainte-Anne Hospital)

Room 3 (Hana D, 4F)

11:00-11:40

Oral 9**Brain Tumor 3**

Chairs: Yasuo Sugita (Kurume University School of Medicine)

Satoshi O. Suzuki (Department of Neuropathology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University)

O9-1 The UCLA brain tumor bank: a comprehensive approach including autopsies, sGluC-GFP xenografts and ethnic diversity

William H Yong (Dept of Pathology (Neuropathology), UCLA School of Medicine)

O9-2 mTORC2-dependent metabolic reprogramming facilitates epigenetic regulation of iron trafficking in glioblastoma

Kenta Masui (Department of Pathology, Tokyo Women's Medical University)

O9-3 Identification of novel gene fusions in glioblastomas with chromothripsis

Audrey Rousseau (Departement de Pathologie Cellulaire et Tissulaire, CHU Angers / CRCINA, INSERM, Universite de Nantes, Universite Angers)

O9-4 Haemangioblastoma and other vascular changes; clinical pathological and immunohistochemical approaches. Clinical, pathological and immunohistochemical approaches

Martha Lilia Tena-Suck (Department of Neuropathology, National Institute of Neurology and Neurosurgery)

Room 3 (Hana D, 4F)

12:00-13:00

Luncheon Seminar 4

Sponsored by Eisai Co., Ltd.

Chair: Toshihiko Wakabayashi (Department of Neurosurgery, Nagoya University Graduate School of Medicine)

LS4-1 What should be expected in one BCNU wafer?

Shinji Kawabata (Department of Neurosurgery, Osaka Medical College)

LS4-2 Importance of intraoperative frozen section diagnosis of the resection margin for effective BCNU wafer implantation

Kenichiro Asano (The Department of Neurosurgery, Hirosaki University Graduate School of Medicine)

Room 3 (Hana D, 4F)

15:30-16:20

Symposium 17**Molecular diagnosis and treatment of gliomas 1**

Chairs: Vani Santosh (Department of Neuropathology, National Institute of Mental Health & Neuro Sciences (NIMHANS))
Soichiro Shibui (Department of Neurosurgery, Kumagaya General Hospital)

- S17-1 Response assessment of bevacizumab for glioblastoma: Comparison between PET and pathological studies**
Keisuke Miyake (Department of Neurological Surgery, Kagawa University Faculty of Medicine)
- S17-2 Definition of pathological total removal of glioblastoma multiforme**
Shoko Yamada (Department of Neurosurgery, Teikyo University Hospital Mizonokuchi)
- S17-3 Immune checkpoint molecules in high-grade gliomas in adults**
Eiichi Ishikawa (Departments of 1Neurosurgery, Faculty of Medicine, University of Tsukuba)
- S17-4 Persistent restoration of the immunosuppressive tumor microenvironment in glioblastoma by bevacizumab**
Ryota Tamura (Department of Neurosurgery, Keio University School of Medicine)
- S17-5 Clinical experience of symptomatic epilepsy in patients with high grade gliomas**
Toshio Hirohata (Department of Neurosurgery, Teikyo University School of Medicine)
- S17-6 Vessel mimicry as a target of antiangiogenic therapy for glioblastoma**
Shingo Takano (Department of Neurosurgery, Faculty of Medicine, University of Tsukuba)

Room 3 (Hana D, 4F)

16:20-17:10

Symposium 20**Molecular diagnosis and treatment of gliomas 2**

Chairs: Sung-Hye Park (Department of Pathology, Seoul National University)
Takamitsu Fujimaki (Department of Neurosurgery, Saitama Medical University Hospital)

- S20-1 Irradiated brain parenchyma provides favorable microenvironments for glioma stem cells to maintain their tumor-propagating ability**
Naosuke Nonoguchi (Department of Neurosurgery, School of Medicine, Osaka Medical College)
- S20-2 Mining-guided future prediction-The 20 hottest neuro-oncological fields in 2019**
Taijun Hana (Department of Neurosurgery, The University of Tokyo / Genome Science Division, Research Center for Advanced Science and Technology, The University of Tokyo)
- S20-3 Tpr is an autophagy induced cell death suppressor in ependymoma**
Sabit Hemragul (Department of Neurosurgery, Graduate School of Medical Science, Kanazawa University)
- S20-4 The correlation between 1p19q and TERT promoter mutation status in IDH-mutant gliomas**
Nobuhiro Hata (Department of Neurosurgery, Kyushu University)
- S20-5 Clinico-pathological findings of 1p19q LOH by using FISH method in high grade glioma: With findings of MLPA**
Kenichiro Asano (Department of Neurosurgery, Hirosaki University Graduate School of Medicine)
- S20-6 Detection of 1p19q codeletion by targeted sequencing for glioma genotyping**
Yasutaka Kato (Genomics Unit, Keio Cancer Center, Keio University School of Medicine / Cancer Research Institute, Hokuto Hospital)

Room 4 (Ohgi, 4F)

8:50-10:10

Symposium 9**Leukoencephalopathy****Chairs:** Andrew Lieberman (University of Michigan Medical School)

Akiyoshi Kakita (Department of Pathology, Brain Reserch Institute, Niigata University)

S9-1 Progressive Multifocal Leukoencephalopathy: Virology and Neuropathology

Yukiko Shishido-Hara (Department of Anatomic Pathology, Tokyo Medical University Hospital / Laboratory of Structural Neuropathology, Tokyo Metropolitan Institute of Medical Science)

S9-2 CADASIL and CARASIL: pathologic features and possible pathomechanisms

Rie Saito (Department of Pathology, Brain Research Institute, Niigata University)

S9-3 Neuronal intranuclear inclusion disease (NIID)

Jun Sone (Department of Neurology, NHO Suzuka National Hospital)

S9-4 Adult-onset leukoencephalopathy with axonal spheroids and pigmented glia (ALSP): pathologic features suggestive of "microgliopathy"

Mari Tada (Department of Pathology, Brain Research Institute, Niigata University)

Room 4 (Ohgi, 4F)

10:20-11:40

Symposium 11**FAP****Chairs:** Takashi Kanda (Neurology, Yamaguchi University Graduate School of Medicine)

Merrill D. Benson (Pathology & Laboratory Medicine, Indiana University School of Medicine)

S11-1 Pathological and biochemical changes of tissue deposited amyloid protein by liver transplantation in hereditary ATTR amyloidosis patients

Masahide Yazaki (Institute for Biomedical Sciences, Shinshu University)

S11-2 Diverse spectrum of hereditary ATTR amyloidosis: polyneuropathy, cardiomyopathy, and cerebral amyloid angiopathy

Taro Yamashita (Department of Neurology, Graduate School of Medical Sciences, Kumamoto University)

S11-3 Pathology of familial amyloid polyneuropathy

Haruki Koike (Department of Neurology, Nagoya University Graduate School of Medicine)

S11-4 Transthyretin Amyloidosis (ATTR)

Merrill D. Benson (Pathology & Laboratory Medicine, Indiana University School of Medicine)

Room 4 (Ohgi, 4F)

12:00-13:00

Luncheon Seminar 5

Sponsored by Biogen Japan Ltd.

Chair: Masahito Yamada (Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Science)**LS5 Amyloid-beta pathology in the Development of Disease-Modifying Therapy against Alzheimer's disease**

Haruhiko Akiyama (Department of Clinical Research, Yokohama Brain and Spine Center)

Room 4 (Ohgi, 4F)

13:00-13:10

BTP2018**Opening Remark****BTP2018 President:** Takashi Komori (Department of Laboratory Medicine and Pathology, Tokyo Metropolitan Neurological Hospital)

Room 4 (Ohgi, 4F) 13:10-13:35

Educational Lecture

Summary of WHO2016

Chair: Toshihiko Wakabayashi (Department of Neurosurgery, Nagoya University Graduate School of Medicine)

EL The WHO 2016 CNS Tumor Scheme: A summary and perspective

Arie Perry (Department of Pathology, Division of Neuropathology, University of California, San Francisco (UCSF))

Room 4 (Ohgi, 4F) 13:35-14:15

Special Lecture 3

Sponsored by CHUGAI PHARMACEUTICAL CO., LTD.

Methylation Profiling for Precision Diagnosis of Human Brain Tumors

Chair: Hideo Takeshima (Department of Neurosurgery, Division of Clinical Neuroscience, Faculty of Medicine, University of Miyazaki)

SL3 Methylation Profiling for Precision Diagnosis of Human Brain Tumors

Andreas von Deimling (Department of Neuropathology and Clinical Cooperation Unit Neuropathology, University Heidelberg and German Cancer Research Center (DKFZ))

Room 4 (Ohgi, 4F) 14:15-15:05

Symposium 15

Lower Grade Gliomas in Adults

Chairs: Caterina Giannini (Anatomic Pathology, Department of Laboratory Medicine and Pathology, Mayo Clinic)
 Kazuhiko Sugiyama (Department of Clinical Oncology and Neuro-oncology Program, Hiroshima University Hospital)
 Atsushi Natsume (Department of Neurosurgery, Nagoya University Graduate School of Medicine)

S15-1 Novel, improved grading system for IDH-mutant astrocytomas

Mitsuaki Shirahata (Department of Neurosurgery/Neurooncology, Saitama Medical University International Medical Center)

S15-2 A mathematical model for predicting the optimal timing of treatment to minimize the malignant transformation rate in WHO grade II diffuse glioma

Kosuke Aoki (Department of Neurosurgery, Nagoya University School of Medicine)

S15-3 Preoperative design of the treatment strategy for lower grade gliomas based on molecular diagnosis by imaging features

Hikaru Sasaki (Department of Neurosurgery, Keio University School of Medicine)

S15-4 PI3 kinase pathway activation to promote malignant progression in oligodendroglial tumor

Kensuke Tateishi (Department of Neurosurgery, Yokohama City University)

S15-5 7-tesla MR susceptibility-weighted imaging can depict astrocytic and oligodendroglial pathology

Manabu Natsumeda (Department of Neurosurgery, Brain Research Institute, Niigata University)

Room 4 (Ohgi, 4F) 15:30-15:55

Special Lecture 4

Molecular Mechanisms of Glioma Progression and Therapy Resistance

Chair: Koichi Ichimura (Division of Brain Tumor Translational Research, National Cancer Center Research Institute)

SL4 Molecular Mechanisms of Glioma Progression and Therapy Resistance

Guido Reifenberger (Institute of Neuropathology, Heinrich-Heine-University Duesseldorf)

Room 4 (Ohgi, 4F)

15:55-16:35

Symposium 18**High Grade Gliomas in Adults 1**

Chairs: **Andreas von Deimling** (Department of Neuropathology and Clinical Cooperation Unit Neuropathology, University Heidelberg and German Cancer Research Center (DKFZ))

Yuichi Hirose (Department of Neurosurgery, Fujita Health University School of Medicine)

Akitake Mukasa (Department of Neurosurgery, Graduate School of Medical Sciences, Kumamoto University)

S18-1 The ligand dependent EphB4 signaling is anchoring signaling in glioma

Yosuke Kawahara (Department of Neurosurgery, Kanazawa University)

S18-2 ICOSLG-mediated IL-10 producing regulatory T cell expansion promotes progression of glioblastoma multiforme

Ryoichi Iwata (Department of Neurosurgery, Kansai Medical University)

S18-3 Olig2 positive Oligodendrocytes lineage cells induce chemo-radioresistant characteristics at the tumor border in glioblastomas

Takuichiro Hide (Department of Neurosurgery, Kitasato University School of Medicine)

S18-4 Detailed analysis of mutation change after treatment in glioblastoma

Kuniaki Saito (Department of Neurosurgery, Kyorin University Faculty of Medicine)

Room 4 (Ohgi, 4F)

16:35-17:45

Symposium 21**High Grade Gliomas in Adults 2**

Chairs: **Guido Reifenberger** (Institute of Neuropathology, Heinrich-Heine-University Duesseldorf)

Toshihiro Kumabe (Department of Neurosurgery, Kitasato University School of Medicine)

Mitsutoshi Nakada (Department of Neurosurgery, Graduate School of Medical Science, Kanazawa University)

S21-1 Intracranial remote recurrence in IDH mutant gliomas is associated with TP53 mutations and 8q gain

Shunsuke Nakae (Department of Neurosurgery, Fujita Health University)

S21-2 A phase I/IIa clinical trial of Ad-SGE-REIC for malignant glioma

Kazuhiro Kurozumi (Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences)

S21-3 IDH gene status is associated with pattern of relapse in malignant gliomas

Yukihiko Sonoda (Department of Neurosurgery, Faculty of Medicine, Yamagata University)

S21-4 An important role of histopathology and immunohistochemistry in immunotherapy against high grade gliomas

Naoya Hashimoto (Department of Neurosurgery, Kyoto Prefectural University of Medicine Graduate School of Medical Science)

S21-5 MGMT promoter methylation in patients with glioblastoma multiforme: Is methylation-sensitive high-resolution melting superior to methylation-sensitive polymerase chain reaction assay?

Shinji Yamashita (Division of Neurosurgery, Department of Clinical Neuroscience, Faculty of Medicine, University of Miyazaki)

S21-6 A subgroup of IDH-mutated astrocytomas with 19q-loss presents oligodendroglioma-like morphology and better prognosis

Ryohei Otani (Department of Neurosurgery, Tokyo Metropolitan Komagome Hospital / Department of Neurosurgery, Dokkyo Medical University)

S21-7 Usefulness and pitfalls of 1p/ 19q-codeletion analysis by FISH method in glioblastoma

Hiroyuki Uchida (Department of Neurosurgery, University of Kagoshima)

Room 4 (Ohgi, 4F)

17:50-18:30

Evening Seminar 2

Sponsored by Leica Microsystems K.K.

Chair: Keisuke Ueki (Department of Neurosurgery, Dokkyo University School of Medicine)

ES2 Practical application of 1p/19q testing for diagnosis of oligodendroglial tumors

Koichi Ichimura (Division of Brain Tumor Translational Research, National Cancer Center Research Institute)

Comet, 43F

10:30-11:30

ASNP General Assembly

Poster Session 2

- P2-1** **Neuronal loss and progression of Alzheimer's disease related pathology observed in a Swedish patient with clinical diagnosis of idiopathic normal pressure hydrocephalus**
Sylwia Libard (Department of Immunology, Genetics and Pathology, Uppsala University / Department of Pathology, Uppsala University Hospital)
- P2-2** **Effects of systemic infection on the brain in the late stage of Alzheimer's disease**
Delphine Boche (Clinical Neurosciences, Clinical and Experimental Sciences, Faculty of Medicine, University of Southampton)
- P2-3** **The pathological characteristics of neuronal Apolipoprotein E in normal aged controls and AD brains**
Ito Kawakami (Dept. of Neurology, Massachusetts General Hospital, Harvard Medical School)
- P2-4** **Deep phenotyping and multi-omics analysis of a homogeneous sample of familial Alzheimers disease brains**
Diego Sepulveda-Falla (Institute of Neuropathology, University Medical Center Hamburg-Eppendorf / Neuroscience Group of Antioquia, Faculty of Medicine, University of Antioquia)
- P2-5** **Supranuclear ophthalmoplegia, neck dorsiflexion, and midbrain tegmentum atrophy associated with brainstem pathology of Alzheimer's disease in Japan**
Naoki Kasahata (Division of Neurology, Department of Medicine, Tokyo Metropolitan Ohtsuka Hospital / Department of Neurology, Makita General Hospital / Laboratory of Structural Neuropathology, Tokyo Metropolitan Institute of Medical Science)
- P2-6** **Wnt signaling molecules are involved in the formation of rimmed vacuoles and granulovacuolar degeneration bodies**
Tetsuya Takahashi (Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences)
- P2-7** **Early tau pathology in young Japanese forensic autopsy series: Frequency and association with APOE genotype and suicidal risk**
Koji Yoshida (Department of Neurology, Hyogo brain and heart center / Department of Neurology, Toyama University Hospital)
- P2-8** **Neuron-specific histone modification analysis of Alzheimer's disease brains**
Kagari Mano (The University of Tokyo)
- P2-9** **A Japanese pedigree of Alzheimer's disease with novel presenilin 1 mutation Try215Arg and amyloid angiopathy. A report of three cases**
Shinobu Kawakatsu (Department of Neuropsychiatry, Aizu Medical Center, Fukushima Medical University / Department of Psychiatry, Yamagata University School of Medicine)
- P2-10** **The first autopsy case of Alzheimer disease after treatment of anti-amyloid beta antibody (solanezumab)**
Yasuto Higashi (Division of Neurology, Himeji Central Hospital)
- P2-11** **Amyloid precursor protein plaque-like structures in late-onset Alzheimer disease**
J Provias (Department of Pathology & Molecular Medicine, McMaster University, Hamilton Health Sciences)
- P2-12** **Distribution of different forms of A β in the brain of subjects with Alzheimer's disease, MCI and intact cognition**
MA Riudavets (Division of Neuropathology, Department of Pathology, Johns Hopkins University School of Medicine / Department of Neuropathology, Institute for Neurological Research, FLENI)
- P2-13** **Brain transcriptome analysis of Japanese population living in Brazil**
Suely Kazue Nagahashi Marie (Departments of Neurology, Faculdade de Medicina, Universidade de Sao Paulo)

- P2-14 Cerebral hypoperfusion and A β interfere with pericyte trophic signalling pathways in Alzheimer's disease**
Seth Love (School of Medicine, University of Bristol)
- P2-15 Zibotentan, an EDN1A antagonist, prevents A β -induced hypertension, maintains cerebral perfusion, and may have therapeutic potential for Alzheimer's disease**
Seth Love (School of Medicine, University of Bristol)
- P2-16 Corticobasal syndrome-Pick's disease with Pick bodies: a clinicopathological study**
Yuto Uchida (Department of Neurology, Nagoya City University Graduate School of Medical Sciences / Department of Neurology, Toyokawa City Hospital)
- P2-17 Chronic traumatic encephalopathy and motor neuron disease in a retired football player**
Kathy L Newell (Dept of Pathology & Laboratory Medicine, University of Kansas School of Medicine)
- P2-18 Aberrant accumulation of ErbB4 in progressive supranuclear palsy and Alzheimer's disease**
Aya Murakami (Department of Neurology, Kansai Medical University)
- P2-19 Glial three repeat tau accumulation in progressive supranuclear palsy**
Daisuke Taniguchi (Department of Neurology, Juntendo University, School of Medicine)
- P2-20 Putaminal Tau Pathology in the Aging Japanese Population: The Hisayama Study**
Hideomi Hamasaki (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)
- P2-21 Staging of brain lesions by phosphorylated tau-immunohistochemistry in the parkinsonism-dementia complex and amyotrophic lateral sclerosis of Guam**
Kiyomitsu Oyanagi (Brain Research Laboratory, Hatsuishi Hospital / Department of Brain Disease Research, Shinshu University School of Medicine)
- P2-22 Clinicopathological comparison between typical and non-typical progressive supranuclear palsy**
Taku Homma (Department of Human Pathology, Division of Pathology and Microbiology, Nihon University School of Medicine / Department of Pathology, Ebara Hospital, Tokyo Metropolitan Health and Medical Treatment Corporation / Department of Neuropathology, Tokyo Metropolitan Neurological Hospital)
- P2-23 Anti-igl5 syndrome: a new entity at the crossroads of neurodegeneration and neuroimmunology**
Lei Liu (Department of Neurology, Beijing Tongren Hospital, Capital Medical University)
- P2-24 Pathological validation study of corticobasal degeneration. An interim progress report of Japanese validation study of CBD (J-VAC study)**
M. Yoshida (Dpt. of Neuropathology, Institute for Medical Science of Aging, Aichi Medical University)
- P2-25 Globular glial tauopathy(GGT) presenting corticobasal syndrome**
Keizo Yasui (Department of Neurology, Japanese Red Cross Nagoya Daini Hospital)
- P2-26 Neuropathologic characteristics of patients with progressive suprenuclear palsy who died within four years after the disease onset**
Lu Zhang (Department of Pathology, Brain Research Institute, Niigata University)
- P2-27 Clinicopathological characteristics of progressive supranuclear palsy manifesting cerebral cortical symptoms**
Akari Takeshima (Pathology, Brain Research Institute, Niigata University / Neurology, Brain Research Institute, Niigata University)
- P2-28 An autopsied case of atypical tauopathy with globular glial inclusions**
A Funai (Department of Neurology, Tokyo Metropolitan Neurological Hospital)
- P2-29 Pathologically suspected frontotemporal dementia and parkinsonism linked to chromosome 17: a case report in Japan**
Shun Akaike (Department of Neurology, Kameda Medical Center)

- P2-30 An autopsy case of incipient Pick's disease with long-standing history of schizophrenia**
Keitaro Okada (University of Toyama / Legal Medicine, Graduated School of Medicine and Pharmaceutical Sciences, University of Toyama)
- P2-31 Immunohistochemical detection of phosphorylated alpha-synuclein in the brain of a tauopathy model, rTg4510 mice**
Yuta Takaichi (Laboratory of Veterinary Pathology, The University of Tokyo)
- P2-32 NODDING SYNDROME IN UGANDA: Histologic evidence for a novel frontotemporal degeneration tauopathy**
Michael S. Pollanen (Department of Pathobiology and Laboratory Medicine, University of Toronto / Ontario Forensic Pathology Service)
- P2-33 Phosphorylated tau deposition in the spinal motor neurons in sporadic amyotrophic lateral sclerosis**
Takahiro Takeda (Department of Neurology, Chiba East Hospital)
- P2-34 Are Bunina bodies generated as a byproduct in the process of TDP-43 degradation?**
F Mori (Department of Neuropathology, Hirosaki University Graduate School of Medicine)
- P2-35 TDP-43 pathology in FTL D-subtypes**
Yasushi Nishihira (Department of Pathology, Northwestern University Feinberg School of Medicine)
- P2-36 Immunohistochemical comparison of past and present patients with Kii amyotrophic lateral sclerosis**
Kazumi Tsuji (Department of Neurology, Wakayama Medical University)
- P2-37 Linear polyubiquitination occurs following K48-linked polyubiquitination in Alzheimer's disease**
Yoshiaki Nakayama (Department of Neurology, Wakayama Medical University)
- P2-38 Clinicopathologic features of two patients with sporadic amyotrophic lateral sclerosis who maintained communication ability for over 30 years**
Junko Ito (Department of Pathology, Brain Research Institute, Niigata University)
- P2-39 A Japanese autopsy case of sporadic frontotemporal lobar degeneration with TAR-DNA binding protein 43-positive inclusions (FTLD-TDP) clinically diagnosed as corticobasal syndrome (CBS)**
Yufuko Saito (Department of neurology, National Hospital Organization Higashinagoya National Hospital)
- P2-40 An autopsy case of an elderly individual with incidentally diagnosed TDP-43 proteinopathy**
Yukiko Hata (Department of Legal Medicine, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama)
- P2-41 Distribution of phosphorylated TDP-43 and phosphorylated tau in the temporal lobe of patients with sporadic ALS who died within one year after clinical onset**
Kentaro Hayashi (Department of Neurology, Tokyo Metropolitan Neurological Hospital)
- P2-42 Morphological alterations of spinal motor neurons with dendritic and axonal TDP-43 accumulation in patients with ALS type 2b**
Asa Nakahara (Department of Pathology, Brain Research Institute, Niigata University)
- P2-43 Autopsy-proven amyotrophic lateral sclerosis coexisted with Parkinson's disease: a novel association of TDP-43 proteinopathy and a-synucleinopathy (ALS/PD in Tokushima)**
Yuishin Izumi (Department of Neurology, Tokushima University Hospital)
- P2-44 An autopsy case of amyotrophic lateral sclerosis with a TARDBP N358S mutation**
Naoyuki Kitagawa (Department of Neurology, Kohsei Chuo General Hospital)
- P2-45 Amyotrophic lateral sclerosis-associated Ataxin-2 colocalized to ribosomal protein S6 in the human brain**
Ryohei Watanabe (Department of Psychiatry, University of Tsukuba)

- P2-46 What can neurophysiologists learn from neuropathology in diagnosis of amyotrophic lateral sclerosis (ALS)?**
Mana Higashihara (Department of Neurology, Westmead Hospital / Department of Neurology, Tokyo Metropolitan Geriatric Hospital)
- P2-47 Upregulated expression of activated caspase-9 immunoreactivity in brains with alpha-synucleinopathy**
Yasuhiro Kawamoto (Department of Neurology, Seijinkai Rakusaishimizu Hospital)
- P2-48 Four cases of multiple system atrophy with marked cortical atrophy and neuronal cytoplasmic inclusions in the temporal cortex**
Takashi Ando (Department of Neurology, Nagoya University Graduate School of Medicine / Department of Neuropathology, Institute for Medical Science of Aging, Aichi Medical University)
- P2-49 Dynactin is involved in Lewy body pathology**
Hiroyuki Honda (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)
- P2-50 The Lewy body pathology of pedunculopontine nucleus in Lewy body disease with postural abnormality**
Terunori Sano (Department of Pathology and Laboratory Medicine, National Center Hospital, National Center of Neurology and Psychiatry)
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Kimiko Inoue (Department of neurology, Toneyama National Hospital)
- P2-52 Submandibular gland is useful for diagnosis of Lewy body disease- the first report from Japan**
Yasuhiro Sakashita (Department of Neurology and Neuropathology (the Brain Bank for Aging Research), Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology / Department of Pathology, Tokyo Metropolitan Geriatric Hospital and Gerontology / Department of Pathology and Laboratory Medicine, National Center of Neurology and Psychiatry Hospital / Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Sciences)
- P2-53 Clinicopathological characteristics of pure type Lewy body disease with dementia**
Renpei Sengoku (Department of Neuropathology, Tokyo Metropolitan Geriatric Hospital and BrainBank for Aging Research / Department of Neurology, Tokyo Metropolitan Geriatric Hospital)
- P2-54 α -synuclein pathology in phrenic nerves of Lewy body disease. (In Japan)**
Kanako Komatsu (Department of Pathology and Laboratory Medicine, National Center Hospital, National Center of Neurology and Psychiatry)
- P2-55 Acute swelling of medulla oblongata followed by sudden death in a case of MSA- C**
Yuko Hiroyoshi (Tokyo Metropolitan Geriatric Hospital & Institute of Gerontology)
- P2-56 Alpha-synuclein pathologies associated with deep brain stimulation in Parkinson's disease**
Masashi Takanashi (Department of Neurology Juntendo University School of Medicine)
- P2-57 Oxidative stress and uric acid are associated with pathomechanism of multiple system atrophy**
Shigeru Koyano (Department of Neurology, Yokohama Minami Kyou Sai Hospital / Department of Neurology, Yokohama City University)
- P2-58 Accumulation of prostease-resistant alpha-synuclein in the skin**
Masako Ikemura (Department of Pathology, Graduate School of Medicine, The University of Tokyo)
- P2-59 Diffuse Lewy Body Disease coexisting with Progressive Supranuclear Palsy pathology and partially co-localising tau and alpha-synuclein positive oligodendroglial inclusions**
Istvan Bodi (Clinical Neuropathology, Kings College Hospital NHS Foundation Trust / MRC London Neurodegenerative Diseases Brain Bank, IOPPN, Kings College London, SGDP Centre)
- P2-60 An autopsy case of mitochondrial complex III deficiency with homozygous mutation c.157_158dup in TTC19 clinically presenting as spinocerebellar ataxia**
Ryoko Takeuchi (Kameda Medical Center)

- P2-61 Early central nervous system involvement in a V30M ATTR amyloidosis patient**
Ricardo Taipa (Neuropathology Unit, Department of Neurosciences, Centro Hospitalar do Porto)
- P2-62 Hereditary diffuse leukoencephalopathy with spheroid axons (HDLS): clinical and neuropathological analysis**
Chenhui Mao (Department of Neurology, Chinese Academy of Medical Science/ Peking Union Medical College Hospital)
- P2-63 Manipulation of retinal glutamate levels by overexpression of GLAST reduces retinal ganglion cell death in an experimental model of glaucoma**
Atsuko Kimura (Visual Research Project, Tokyo Metropolitan Institute of Medical Science)
- P2-64 Microglia loss does correlate with axonal spheroids in adult-onset leukoencephalopathy with axonal spheroids**
Murad Alturkustani (Department of Pathology, King Abdulaziz University / London Health Sciences Centre / University of Western Ontario)
- P2-65 A 43-year-old male autopsy case of sporadic amyotrophic lateral sclerosis with a family history of spinocerebellar ataxia type 3/Machado-Joseph disease**
Shuji Hirata (Department of Neurology, Awa Regional Medical Center)
- P2-66 Mutant SOD1 aggregates from human ventral horn transmit templated aggregation and fatal ALS-like disease**
Thomas Brannstrom (Department of Medical Biosciences, Umea University)
- P2-67 Involvement of TGF-beta signaling-related proteins in formation of inclusions of adult-onset neuronal intranuclear inclusion disease**
Tomoe Sato (Department of Pathology, Brain Research Institute, Niigata University / Department of Neurology, Brain Research Institute, Niigata University)
- P2-68 The expression of CD3, oxidative cytotoxic molecule, and stress response proteins related to degeneration of Purkinje cells in multiple system atrophy, cerebellar type**
Masako Kato (Division of Molecular Pathology, Department of Pathology, Tottori University Faculty of Medicine)
- P2-69 Clinico-pathological analysis in two cases of Huntington's disease**
Koushun Matsuo (Division of Neurology, Ohmihachiman Community Medical Center)
- P2-70 An autopsy case of late-onset slowly progressive spastic paraplegia with a large deletion mutation in KIAA0196**
Akira Arakawa (Department of Neurology, Graduate School of Medicine, The University of Tokyo)
- P2-71 Amyotrophic lateral sclerosis and parkinsonism-dementia complex of the Hohara focus of the Kii Peninsula : pathological findings as a multiple proteinopathy**
Maya Mimuro (Institute for Medical Science of Aging, Aichi Medical University)
- P2-72 Isolated nigral degeneration not associated with a-synuclein pathologies in the familial Parkinson's disease with LRRK2 p.R1441H mutation**
Masashi Takanashi (Dept. of Neurology Juntendo Koshigaya Hospital)
- P2-73 Immunohistochemical Analysis of Nna1 in the Ataxia and Male Sterility (AMS) Mouse, an Nna1 Mutant and Model of Cerebellar Ataxia**
Asuka Araki (Departments of Pathology, Shimane University School of Medicine)
- P2-74 Brainstem calcification and extensive white matter changes in an autopsy case of bilateral striopallidodentate calcification with Alzheimer's disease**
Tamaki Iwase (Dept. of Neurol., Nagoya City Koseiin Medical Welfare Ctr.)
- P2-75 Amyloid beta-induced lysosomal impairment in retinal pigment epithelium contributes to the pathogenesis of dry age-related macular degeneration**
Jeong Hun Kim (Fight against Angiogenesis-Related Blindness Laboratory, Biomedical Research Institute, Seoul National University Hospital / Department of Ophthalmology & Biomedical Sciences, College of Medicine, Seoul National University)

- P2-76 Dry age-related macular degeneration like pathology in aged 5XFAD mice: Ultrastructure and microarray analysis**
Jin Hyoung Kim (Fight against Angiogenesis-Related Blindness (FARB) Laboratory, Clinical Research Institute, Seoul National University Hospital)
- P2-77 The role of KIF1C in sustainable myelination in SPG58/SAX2**
Khalid El Hachimi (EPHE/CNRS UMR 7225 - Inserm U 1127 - UPMC-P6 UMR S 1127 Institute of Brain and spinal cord)
- P2-78 An autopsy case of SPG11 with peculiar p62-immunopositive intracytoplasmic inclusions**
Shinichirou Mori (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)
- P2-79 Selective autophagy eliminates ALS-related mutant SOD1 protein in cultured microglia**
Motoko Kawaguchi Niida (Department of Pathology, Tokyo Women's Medical University)
- P2-80 Neuropathological investigation of the nucleus accumbens focusing on clinical heterogeneity in Huntington disease**
Mitsuaki Hirano (Department of Psychiatry, Graduate school of medicine, Nagoya University)
- P2-81 An autopsy case of malignant lymphoma associated with severe motor neuron degeneration**
Tomomi Murao (Department of Neurology, National Hospital Organization Hiroshimanishi Medical Centre)
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Kiyomitsu Oyanagi (Brain Research Laboratory, Hatsuishi Hospital)
- P2-83 Familial amyotrophic lateral sclerosis with SOD1 Leu126 Ser mutation - clinical and pathological studies**
Tomoyasu Matsubara (Department of Neurology and Neuropathology (Brain Bank for Aging Research), Tokyo Metropolitan Geriatric Hospital & Institute of Gerontology)
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Ayako Sato (Department of Clinical Laboratory, National Center of Neurology and Psychiatry)
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Keiko Toyooka (Department of Neurology, Toneyama National Hospital)
- P2-86 Leukoencephalopathy with vanishing white matter: Clinicopathological characteristics of a rare adult-onset case with a homozygous EIF2B5 mutation**
Naohiko Seike (Department of pathology, Brain Research Institute, Niigata University / Department of Neurology, Takatsuki General Hospital)
- P2-87 A comprehensive analysis of genetic variations and neuropathologic features of patients with PARK2**
Naohiko Seike (Department of Pathology, Brain Research Institute, Niigata University / Department of Neurology, Takatsuki General Hospital)
- P2-88 A case of idiopathic normal pressure hydrocephalus with Alzheimer's disease pathology, presenting good clinical outcome after ventriculo-peritoneal shunt**
Mari Shibukawa (Department of Neurology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)
- P2-89 Neuropathological findings of an autopsy patient with sporadic idiopathic basal ganglia calcification**
Yuichi Hayashi (Department of Neurology and Geriatrics, Gifu University Graduate School of Medicine)
- P2-90 Can we differentiate neuronal intranuclear inclusion disease from fragile X-associated tremor/ataxia syndrome?**
Aki Murayama (Neurology, Tokyo Metropolitan Neurological Hospital)
- P2-91 The Brains for Dementia Research cohort**
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- P2-92 Fukushima Brain Bank ; Unique activity of Japanese private geriatric hospital**
Hiroyasu Akatsu (Department of Community-Based Medical Education, Nagoya City University, Graduate School of Medical Sciences / Institute of Neuropathology, Fukushima Hospital)
- P2-93 Standardization of frozen tissue resource- efforts at the National Center for Neuropathy and Neurology (NCNP) in Japan Brain Bank Net (JBBN)**
Yoko Tanaka (Department of Pathology and Laboratory Medicine, National Center Hospital, National Center of Neurology and Psychiatry)
- P2-94 BRAIN UK: accessing NHS tissue archives for neuroscience research**
James AR Nicoll (Clinical Neurosciences, Clinical & Experimental Sciences, University of Southampton / Department of Cellular Pathology, University Hospital Southampton)
- P2-95 Neuronal expression of Toll like receptor 3 and its correlation with microglial activation and interferon gamma expression in human rabies**
Bishan Dass Radotra (Department of Histopathology, Postgraduate Institute of medical Education & Research)
- P2-96 Preliminary findings of the pathogenesis of central nervous system granulomatous inflammation in tuberculous meningitis in South Africa: a post-mortem immunohistochemistry study**
Stefan Dan Zaharie (Neuropathology Unit Department of Anatomical Pathology University of Stellenbosch and NHL South Africa / Department of Anatomical Pathology, Stellenbosch University / Department of Paediatric Infectious Diseases VUmc)
- P2-97 A neuropathological and neurobiological study of brain malformations observed in fetuses infected by the Zika virus**
Ferechte Encha-Razavi (Embryofetopathology Unit, Hopital Universitaire Necker-Enfants Malades, APHP)
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Masaki Takao (Saitama International Medical Center, Saitama Medical University / Mihara Memorial Hospital)
- P2-99 Autophagy markers in dystrophic neurites in human and experimental prion diseases**
Beata Sikorska (Department of Molecular Pathology and Neuropathology, Medical University of Lodz)
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Diana Villa Sepulveda (National Institute of Neurology and Neurosurgery "Dr. manuel Velasco Suarez")
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Akio Akagi (Department of Neuropathology, Institute for Medical Science of Aging, Aichi Medical University / Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Science / Department of Neurology, National Hospital Organization Iou Hospital)
- P2-102 Diverse clinical feature and neuropathological findings on Gerstmann-Straussler-Scheinker syndrome - Seven cases report**
Masafuchi Ryo (Department of Neurology Tokai University Tokyo Hospital)
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Erick Gomez-Apo (General Hospital of Mexico)
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Tomotaka Shiraishi (Department of Neurology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)
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Saori Oonuma (Department of Neurology, Sagami National Hospital, National Hospital Organization)
- P2-106 An autopsy case of progressive multifocal leukoencephalopathy associated with idiopathic CD4 positive lymphocytopenia with a ten-year clinical course**
Tatsuya Fukumoto (Department of Neurology, Kameda General Hospital / Department of Clinical Neuroscience, Tokushima University)

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Zen-ichi Tanei (Department of Neuropathology (the Brain Bank for Aging Research), Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)
- P2-108 Clinical courses of patients with Creutzfeldt-Jakob disease in Shizuoka Institute of Epilepsy and Neurological Disorders, Japan**
Tomokazu Obi (Department of Neurology, Shizuoka Institute of Epilepsy and Neurological Disorders)
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Jose M. Bonnin (Department of Pathology and Laboratory Medicine, Indiana University School of Medicine)
- P2-110 Coexistence of PrP and tau amyloids associated with the PRNP Q160X nonsense mutation**
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- P2-111 Sensory nervous system involvement in a footpad-inoculated, Japanese encephalitis mouse model**
Tzeh Long Fu (Department of Pathology, Faculty of Medicine, University of Malaya)
- P2-112 An orally-infected hamster model for Coxsackievirus A16 infection confirms neurovirulence**
Yuan Teng Hooi (Department of Pathology, Faculty of Medicine, University of Malaya)
- P2-113 A Japanese encephalitis virus quasispecies with an E gene mutation exhibits reduced neurovirulence**
Shu Pin Yu (Department of Pathology, Faculty of Medicine, University of Malaya)
- P2-114 Trophic Factors Involved In Developmental and Adult Hippocampal Neurogenesis In Humans**
homa adle-biasette (Department of Pathology, Lariboisiere Hospital / PROTECT, INSERM, Universite Paris Diderot / Centre de Ressources Biologiques BB-0033-00064, Hopital Lariboisiere)
- P2-115 Fiber tract anomalies of the CNS: anatomical variants of the midline-crossing mode of the anterior commissure**
Akira Hori (Institute for Pathology/Neuropathology, Medizinische Hochschule Hannover)
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Kazuki Tainaka (Brain Research Institute, Niigata University)
- P2-117 Basic study on the development of simple cognition system and device of the non-learning and non-stress type in the Alzheimer's disease model mouse**
Masahiro Ii (Division of Neuropathology, Tottori University Faculty of Medicine)
- P2-118 Longitudinal diffusion tensor imaging and neuropathology revealed nerve fiber alterations in hereditary microcephaly model mice**
Hiroshi Ogi (Department of Pathology and Applied Neurobiology, Kyoto Prefectural University of Medicine)
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Yoichi Chiba (Department of Pathology and Host Defense, Faculty of Medicine, Kagawa University)
- P2-120 Expression of CRYM in different rat organs during development and its decreased expression in degenerating pyramidal tracts in amyotrophic lateral sclerosis**
Satoshi O Suzuki (Department of Neuropathology, Graduate School of Medical Sciences, Kyushu University)
- P2-121 Rapid immunohistochemical staining using an electric stirring device is useful for intraoperative brain tumor diagnosis**
Katsushi Taomoto (Department of Neurosurgery, Ohnishi Neurological Center)
- P2-122 Characterization of the seed A β oligomers in the brains of APP transgenic mice**
Mayu Hakozaki-Kashiwagi (Department of Neuropathology, Graduate School of Medicine, The University of Tokyo / Department of Pathology, Graduate School of Medicine, The University of Tokyo)
- P2-123 Development of bipolar charged hydrogel for neuronal tissue engineering**
Satoshi Tanikawa (Department of Cancer Pathology, Faculty of Medicine, Hokkaido University)

- P2-124 The development of the prominent immunohistochemistry method for human cholinergic neurons**
Satoru Morimoto (Department of Neuropathology and Brain Bank for Aging Research (BBAR), Tokyo Metropolitan Institute of Gerontology (TMIG))
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- P2-126 D-neuron pathology: New clue for neuropsychiatric research**
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- P2-127 Maternal repeated cold stress alters morphology of noradrenergic neurons of offsprings: Immunohistochemical study using rat model**
Keiko Ikemoto (Department of Psychiatry, Iwaki Kyoritsu General Hospital)
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Francia Victoria Abarcar De Los Reyes (Pathology Laboratory UERM Memorial Medical Center)